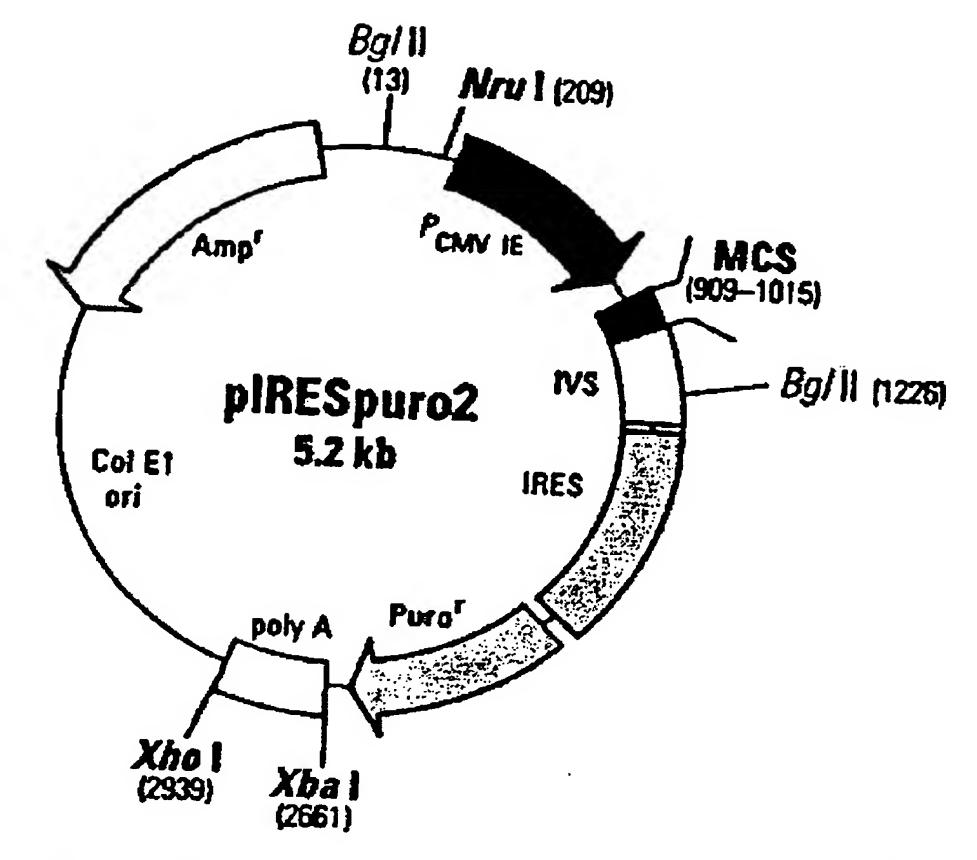
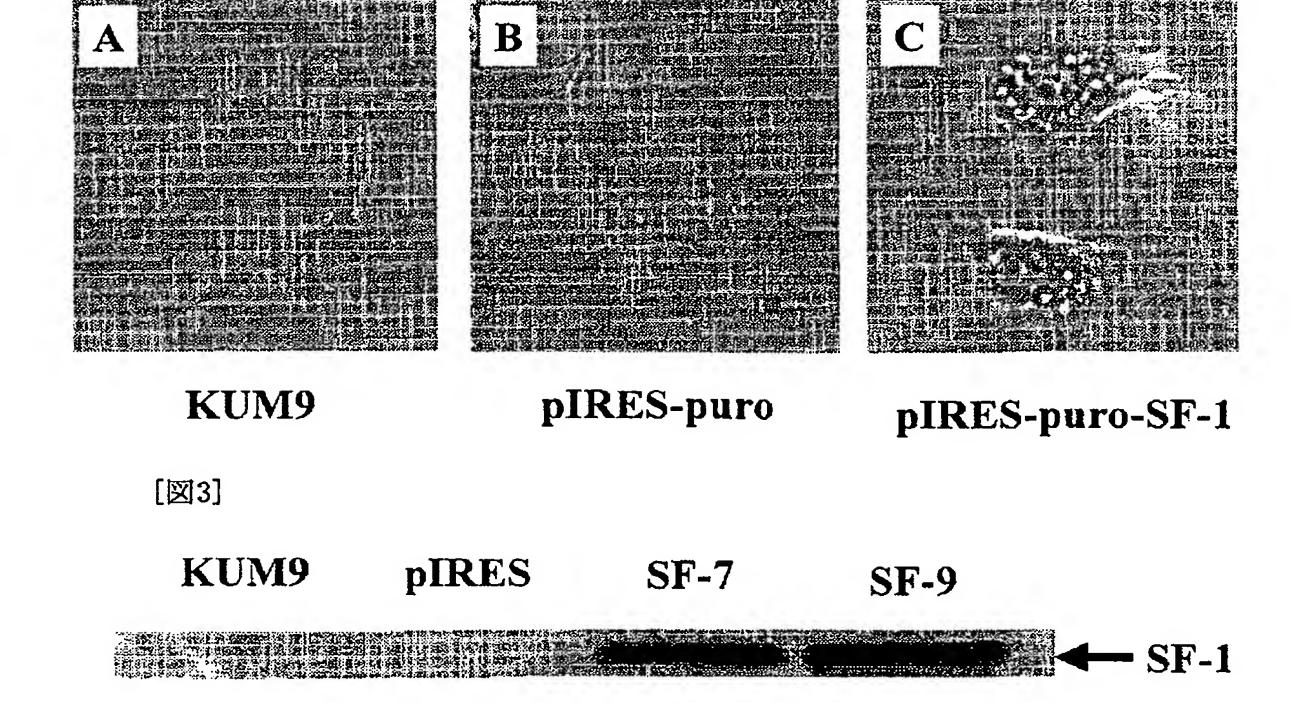
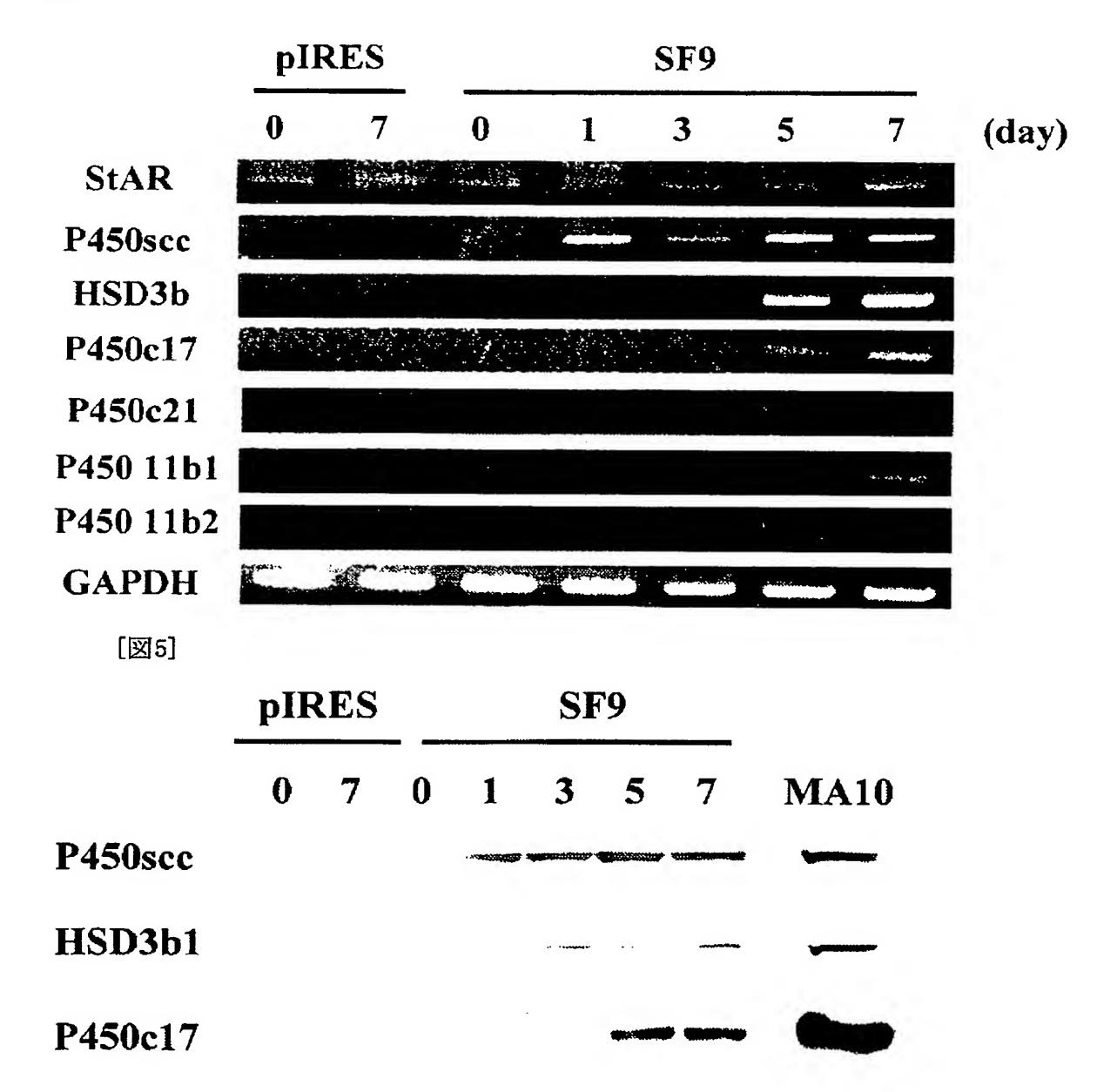
[図1]



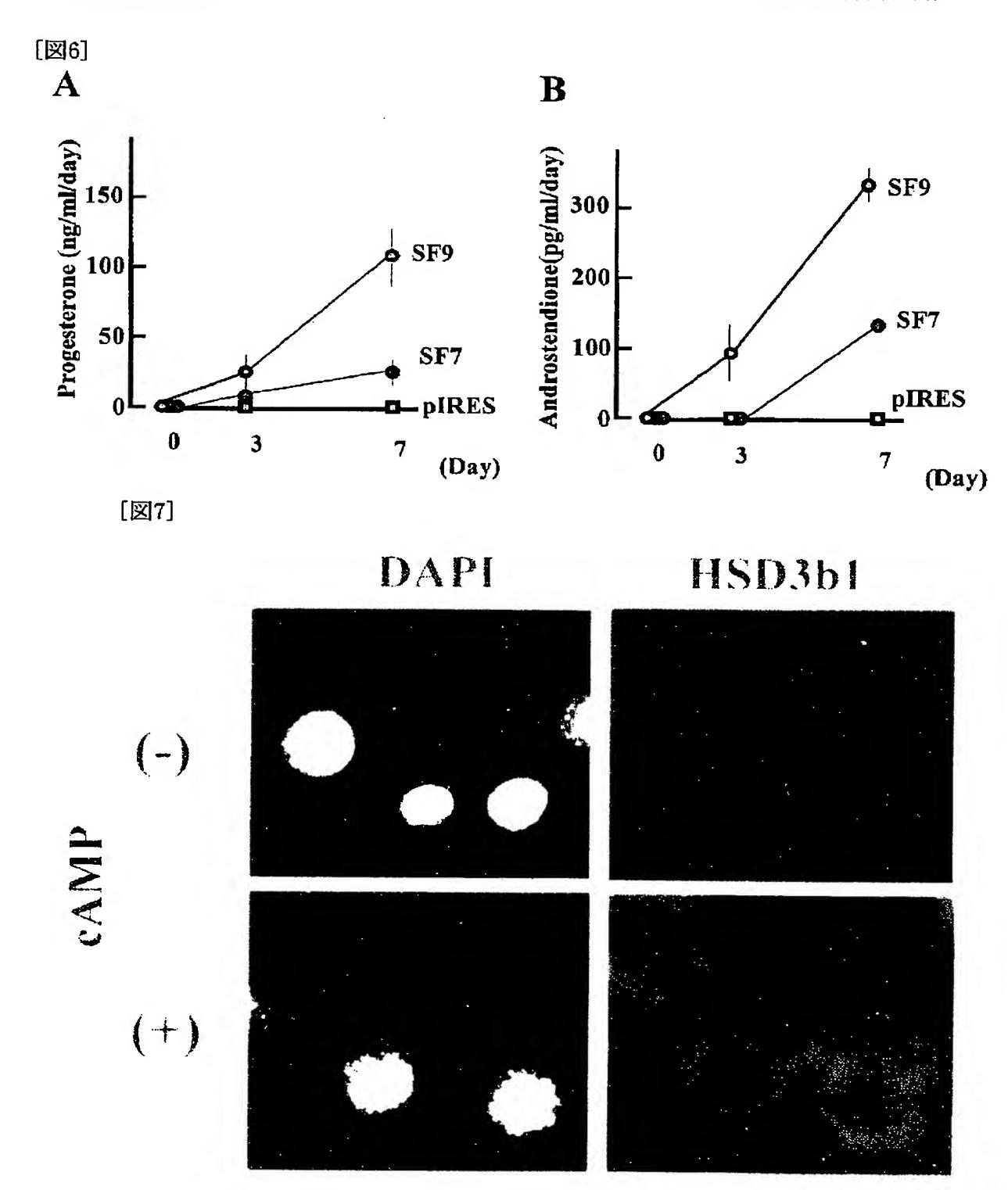
[図2]



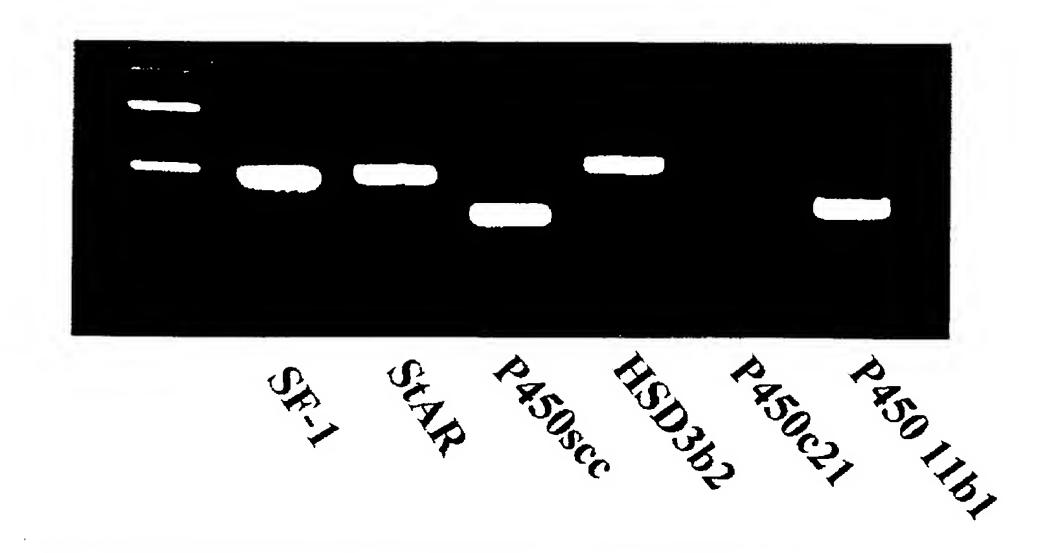
[図4]



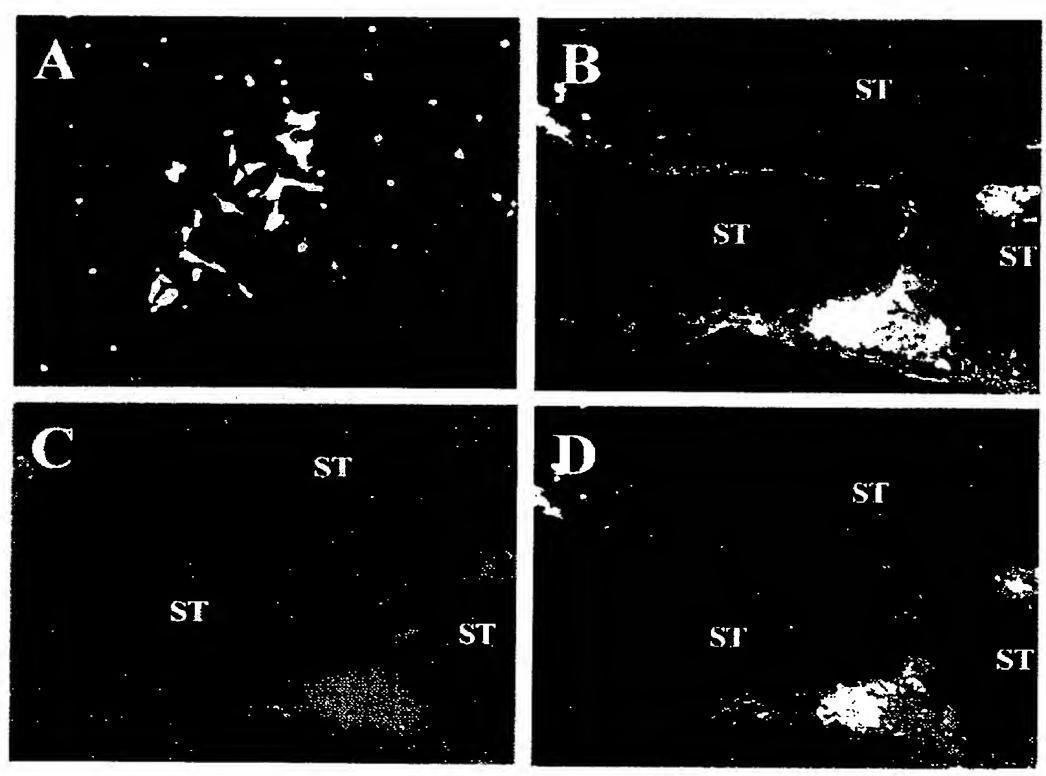
 $\bullet = 0 \quad \bullet \quad \bullet$



[図8]

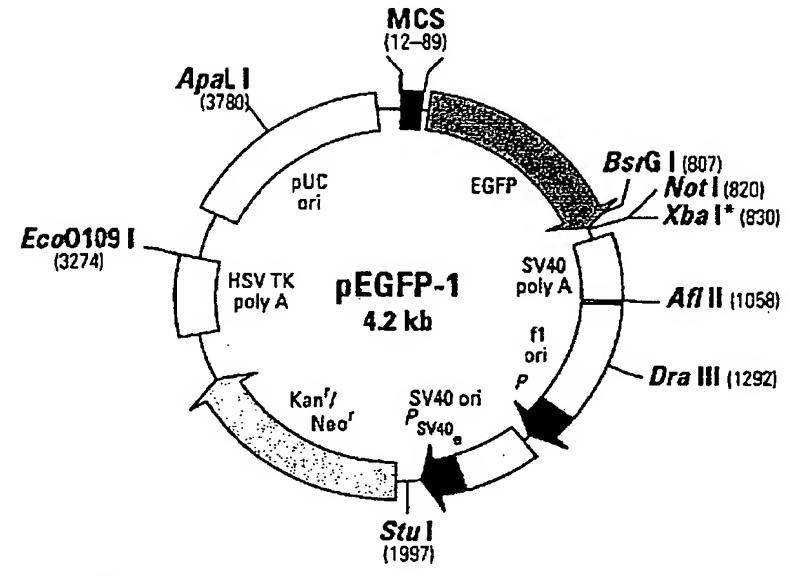


[図9]

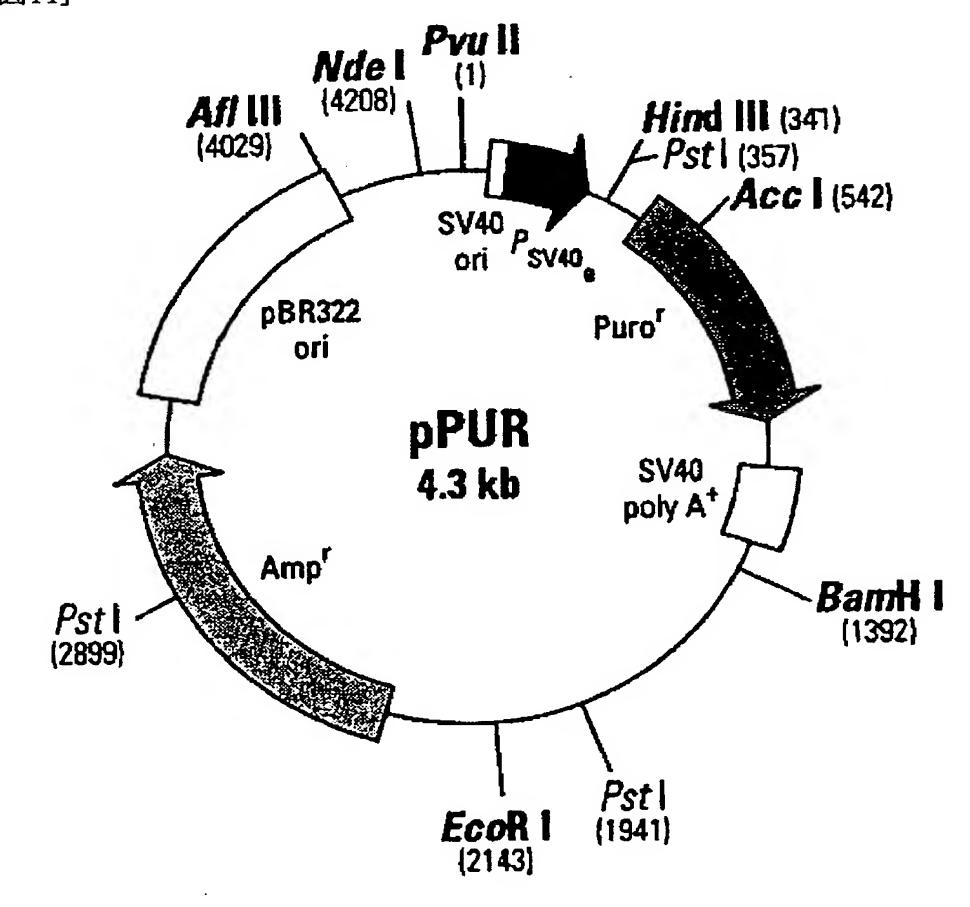


[図10]

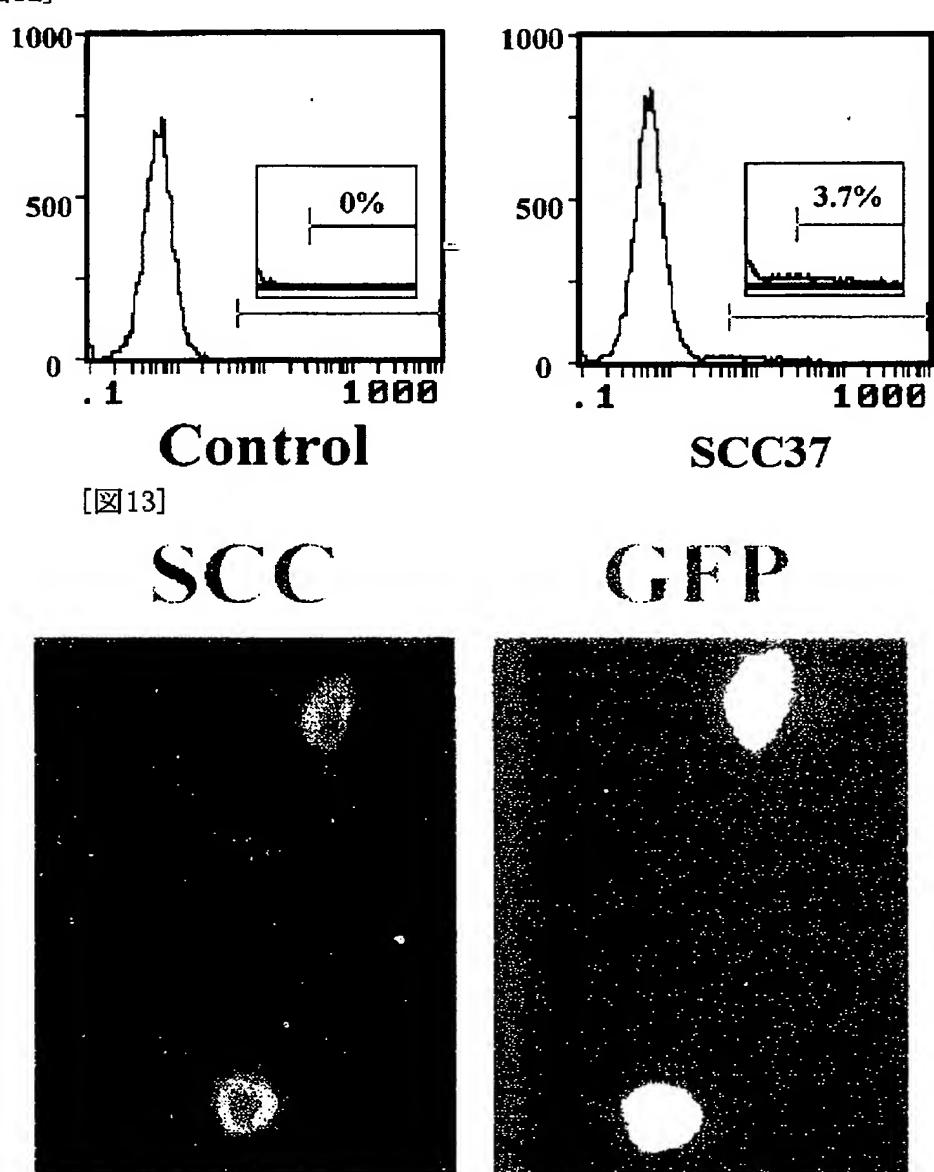
i) i i



[図11]



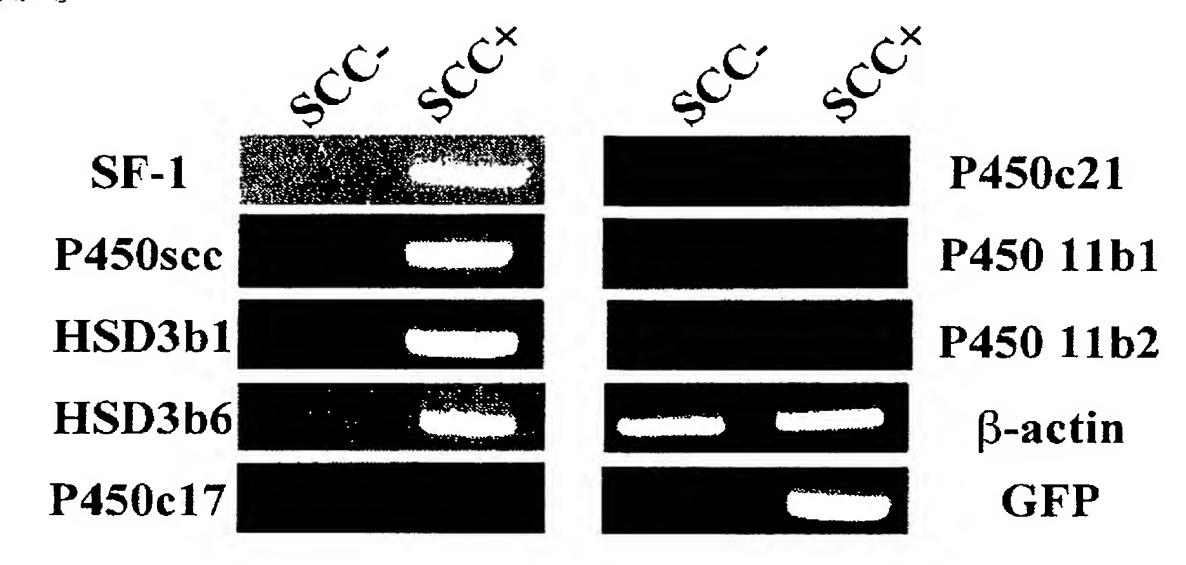




PCT/JP2005/002548

WO 2005/085425

[図14]



INTERNATIONAL SEARCH REPORT

International application No.

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ Cl2N5/06, Cl2N5/08, Cl2N5/10, Cl2N15/09, Cl2P33/00, A01K67/03 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ Cl2N5/06, Cl2N5/08, Cl2N5/10, Cl2N15/09, Cl2P33/00, A01K67/03 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	27	
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ Cl2N5/06, Cl2N5/08, Cl2N5/10, Cl2N15/09, Cl2P33/00, A01K67/02		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ Cl2N5/06, Cl2N5/08, Cl2N5/10, Cl2N15/09, Cl2P33/00, A01K67/02		
Int.Cl ⁷ C12N5/06, C12N5/08, C12N5/10, C12N15/09, C12P33/00, A01K67/02		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	27	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BIOSIS/WPI (DIALOG), MEDLINE (STN), JSTPlus/JST7580 (JOIS)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to		
X/Y Crawford P.A. et al., Nuclear receptor 7/1-6, steroidogenic factor 1 directs embryonic stem cells toward the steroidogenic line age, Mol.Cell.Biol., 1997, Vol.17, No.7, pages 3997 to 4006	8-10	
Akihiro UMEZAWA, "Tokushu Kansaibo no Hassei 1-6,8 Bunka to Sono Kasosei Kotsuzui Kanshitsu Saibo", Cellular molecular medicine, 2001, Vol.2, No.1, pages 17 to 24	3-10	
Y Hajime OKUSI, "Kan'yokei Kansaibo o Mochiita 1-6,8 Saisei Iryo Gijutsu", Biosceience & Industry, 2002, Vol.30, No. 5, pages 318 to 319	3-10	
Further documents are listed in the continuation of Box C. See patent family annex.		
"A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to use to be of particular relevance the principle or theory underlying the invention	date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
filing date considered novel or cannot be considered to involve as		
cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention c special reason (as specified)		
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family	ombination	
Date of the actual completion of the international search O4 March, 2005 (04.03.05) Date of mailing of the international search report 22 March, 2005 (22.03.05)		
Name and mailing address of the ISA/ Japanese Patent Office Authorized officer		
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004) Telephone No.	<u>-</u>	

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.
PCT/JP2005/002548

		PCT/JP2	/JP2005/002548	
C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Y	Akihiro UMEZAWA, "Saisei Iryo System-Sono Kenkyu to Shinpo-Kan'yokei Kansaibo ni yo'Zoki' Saikochiku-Atarashii Seitai Micro Device to shiteno Kotsuzui Kanshitsu Saib Kasosei o Mochiita Saibo Ishoku-", Biothe 2001, Vol.15, No.2, pages 119 to 125	oru oo no	1-6,8-10	
P,X	Takashi YAZAWA et al., "Kotsuzui Yurai no Kan'yokei Kansaibo kara no Steroid Hormon Sansei Saibo no Sakusei", Folia endocrino Japonica, 2004 Nen 9 Gatsu, Vol.80, No.2, page 457, WS7-3	e logica	1-10	
P,X	Gondo S. et al., SF-1/Ad4BP transforms pr long-term cultured bone marrow cells into ACTH-responsive steroidogenic cells, Gene Cells, 2004 Dec, Vol.9, No.12, pages 1239 1247	ន	1-10	
			- -	

国際調查報告

A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. Cl C12N5/06, C12N5/08, C12N5/10, C12N15/09, C12P33/00, A01K67/027

B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int.Cl' C12N5/06, C12N5/08, C12N5/10, C12N15/09, C12P33/00, A01K67/027

最小限資料以外の資料で調査を行った分野に含まれるもの

国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

BIOSIS/WPI (DIALOG), MEDLINE (STN), JSTP1us/JST7580 (JOIS)

C. 関連する	ると認められる文献	•
引用文献の・ カテゴリー*	引用文献名・及び一部の箇所が関連するときは、その関連する箇所の表示・	関連する 請求の範囲の番号
X/Y	Crawford P.A. et al., Nuclear receptor steroidogenic factor 1 directs embryonic stem cells toward the steroidogenic line, age, Mol Cell Biol, 1997, Vol. 17, No. 7, pp. 3997-4006	. 7/1-6, 8-10
Y .	梅澤明弘, 特集 幹細胞の発生分化とその可塑性 骨髄間質細胞, 分子細胞治療, 2001, Vol. 2, No. 1, pp. 17-24	1-6, 8-10
Y	大串始, 間葉系幹細胞を用いた再生医療技術, バイオサイエンスとインダストリー, 2002, Vol. 30, No. 5, pp. 318-319	1 -6, 8 - 10

× C欄の続きにも文献が列挙されている。

□ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

- 「A」特に関連のある文献ではなく、一般的技術水準を示す もの
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- 「&」同一パテントファミリー文献

国際調査を完了した日 04.03.2005	国際調査報告の発送日 22.3.2005
国際調査機関の名称及びあて先 日本国特許庁 (ISA/JP) 郵便番号100-8915 東京都千代田区酸が関三丁目4番3号	特許庁審査官(権限のある職員) 銀室 里美 電話番号 03-3581-1101 内線 3448

国際調查報告

C (続き).	関連すると認められる文献	関連する
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	請求の範囲の番号
Y	梅澤明弘,再生医療システムーその研究と進歩ー間葉系幹細胞による「臓器」再構築一新しい生体マイクロデバイスとしての骨髄間質細胞の可塑性を用いた細胞移植ー,Biotherapy,2001,Vol.15,No.2,pp.119-125	1-6, 8-10
PX	矢澤隆志他, 骨髄由来の間葉系幹細胞からのステロイドホルモン産生細胞の作製, 日本内分泌学会雑誌, 2004年9月, Vol. 80, No. 2, p. 457, WS7-3	. 1–10
PX	Gondo S. et al., SF-1/Ad4BP transforms primary long-term cultured bone marrow cells into ACTH-responsive steroidogenic cells, Genes Cells, 2004 Dec, Vol. 9, No. 12, pp. 1239-1247	1-10
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